

# MECHANICAL ENGINEERING CURRICULUM

## FALL SEMESTER

MATH 121	Calculus I	5	<input type="checkbox"/>	<input type="checkbox"/>
ENGL 101	Composition	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 228	Computer Graphics	3	<input type="checkbox"/>	<input type="checkbox"/>
Gen. Ed. Comp. Elective <sup>1</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
Gen. Ed. Comp. Elective <sup>1</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
		17		

## SRPING SEMESTER

MATH 122	Calculus II	5	<input type="checkbox"/>	<input type="checkbox"/>
ENGL 102	Critical Reading & Writing	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 208	Intro. Digital Comp. Methods	3	<input type="checkbox"/>	<input type="checkbox"/>
PHSX 211	Gen. Physics I	4	<input type="checkbox"/>	<input type="checkbox"/>
		15		

## FALL SEMESTER

MATH 220	Applied Diff. Equations	3	<input type="checkbox"/>	<input type="checkbox"/>
MATH 290	Elem. Linear Algebra	2	<input type="checkbox"/>	<input type="checkbox"/>
ME 312	Basic Engr. Thermo	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 201	Statics	2	<input type="checkbox"/>	<input type="checkbox"/>
PHSX 212	Gen. Physics II	4	<input type="checkbox"/>	<input type="checkbox"/>
MATH 365	Statistics	3	<input type="checkbox"/>	<input type="checkbox"/>
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## SPRING SEMESTER

EECS 316	Circuits, Electronics & Instrumentation	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 412	Thermal Systems	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 510	Fluid Mechanics	3	<input type="checkbox"/>	<input type="checkbox"/>
CHEM 125	College Chemistry	5	<input type="checkbox"/>	<input type="checkbox"/>
EECS 318	Circuits & Electronics Lab	1	<input type="checkbox"/>	<input type="checkbox"/>
		15		

## FALL SEMESTER

ME 508	Num. Analysis	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 612	Heat Transfer	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 420	Mechanisms	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 311	Mechanics of Mat'ls	4	<input type="checkbox"/>	<input type="checkbox"/>
ME 346	Sel. & Proc. of Engr Mat'ls	4	<input type="checkbox"/>	<input type="checkbox"/>
		17		

## SPRING SEMESTER

ME 455	Mech. Engr. Meas. & Exp.	4	<input type="checkbox"/>	<input type="checkbox"/>
ME 661	Finite Element Method for Stress Analysis	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 520	Dynamics of Mach.	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 501	ME Design Process	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 528	Mechanical Design I	3	<input type="checkbox"/>	<input type="checkbox"/>
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## FALL SEMESTER

Gen. Ed. Comp. Elective <sup>1</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
Gen. Ed. Comp. Elective <sup>1</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
ME 682	Control Systems	3	<input type="checkbox"/>	<input type="checkbox"/>
ME 628	Mech. Design II	3	<input type="checkbox"/>	<input type="checkbox"/>
Capstone Design		3	<input type="checkbox"/>	<input type="checkbox"/>
		17		

## SPRING SEMESTER

Gen. Ed. Comp. Elective <sup>1</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
Approved Elective <sup>2</sup>		4	<input type="checkbox"/>	<input type="checkbox"/>
Approved Elective <sup>2</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
Approved Elective <sup>2</sup>		3	<input type="checkbox"/>	<input type="checkbox"/>
Capstone Design		3	<input type="checkbox"/>	<input type="checkbox"/>
		16		

<sup>1</sup> See approved General Education Component Electives List. Complete one course from each of the Ethics, Communication, Economics, Contemporary Issues, and Environmental Concern areas.

<sup>2</sup> Selected from Approved Electives List 1 or List 2.

### <sup>3</sup>Capstone Design

Option: Fall

- A – Elective (List 1)
- B – ME 627
- C – ME 633
- D – ME 644

Option: Spring

- A – ME 641
- B – ME 642
- C – ME 643
- D – Elective (List 1)